



Charter Schools January 2018

Harlem Children's Zone (HCZ) Promise Academy Charter Schools

This intervention report presents findings from a systematic review of the *Harlem Children's Zone (HCZ) Promise Academy Charter Schools* conducted using the WWC Procedures and Standards Handbook (version 3.0) and the Charter Schools review protocol (version 3.0). No studies of the *HCZ Promise Academy Charter Schools* that fall within the scope of the Charter Schools review protocol meet What Works Clearinghouse (WWC) group design standards. Because no studies meet WWC group design standards at this time, the WWC is unable to draw any conclusions based on research about the effectiveness or ineffectiveness of the *HCZ Promise Academy Charter Schools* on elementary, middle, and high school students. Research that meets WWC design standards is needed to determine the effectiveness or ineffectiveness of this intervention.

Intervention Description¹

The Harlem Children's Zone (HCZ) is a non-profit organization designed to serve low-income children and families living in Harlem in New York City. It provides various community services and supports two public K–12 charter schools, hereafter referred to as the *HCZ Promise Academy Charter Schools*. The *HCZ Promise Academy Charter Schools* have a longer school day and year than traditional public schools, and focus on core academic subjects, arts, and physical fitness. They monitor student progress on academic outcomes and provide differentiated instruction for students who have not met required benchmarks. The schools aim to recruit and retain high-quality teachers and use student achievement to evaluate and incentivize teachers. In addition to focusing on academics, the schools educate students and families on character development, healthy lifestyles, and leadership skills. In partnership with the HCZ, the *HCZ Promise Academy Charter Schools* provide students with various community services and non-academic supports, such as social workers, counseling, and medical and dental services.

Research³

The WWC identified three studies of the *HCZ Promise Academy Charter Schools* for elementary, middle, and high school students that were published or released between 1996 and 2017.⁴

One study (Yeh, 2013) is out of the scope of the Charter Schools review protocol because it has an ineligible study design.

Two studies are out of the scope of the Charter Schools review protocol for reasons other than study design. Both studies are ineligible because they examine the effectiveness of an individual charter school, but this WWC review focuses on the *HCZ* organizational model. The HCZ organizational model is a group of two charter schools, the *HCZ Promise Academy Charter Schools*, organized as a charter network. Any effect of the HCZ model cannot be distinguished from the effect of the particular staff, local services, or other factors at the school that are not part of the HCZ model. One of these two studies (Dobbie & Fryer, 2015) is a randomized controlled trial that examined the effectiveness of an *HCZ Promise Academy Charter School* on student achievement and matriculation of postsecondary students. The other study (Whitehurst & Croft, 2010) is a quasi-experimental design that compared the New York State mathematics and English language arts achievement of students in a *HCZ Promise Academy Charter School* with that of students in charter schools in the Bronx and Manhattan between 2007 and 2009.

References

Studies that meet WWC group design standards without reservations

None.

Studies that meet WWC group design standards with reservations

None

Studies that do not meet WWC group design standards

None

Studies that are ineligible for review using the Charter Schools Evidence Review Protocol

Dobbie, W., & Fryer, R. G., Jr. (2015). The medium-term impacts of high-achieving charter schools. *Journal of Political Economy, 123*(5), 985–1037. The study is ineligible for review because it is out of scope of the protocol. *Additional sources:*

- Dobbie, W., & Fryer, R. G., Jr. (2009). *Are high-quality schools enough to close the achievement gap? Evidence from a social experiment in Harlem* (NBER Working Paper 15473). Cambridge, MA: National Bureau of Economic Research. Retrieved from https://eric.ed.gov/?id=ED507097
- Dobbie, W., & Fryer, R. G., Jr. (2011). Are high-quality schools enough to increase achievement among the poor? Evidence from the Harlem Children's Zone. *American Economic Journal: Applied Economics*, 3(3), 158–187.
- Dobbie, W., & Fryer, R. G., Jr. (2013). *The medium-term impacts of high-achieving charter schools on non-test score outcomes* (NBER Working Paper 19581). Cambridge, MA: National Bureau of Economic Research.
- Dobbie, W., & Fryer, R. G., Jr. (2014). *The medium-term impacts of high-achieving charter schools.* Retrieved from: https://scholar.harvard.edu/
- Dobbie, W., & Fryer, R. G., Jr. (2014). *The medium-term impacts of high-achieving charter schools on non-test score outcomes. Web appendices.* Retrieved from: https://scholar.harvard.edu/
- Whitehurst, G. J., & Croft, M. (2010). The Harlem Children's Zone, Promise Neighborhoods, and the broader, bolder approach to education. Washington DC: Brookings Institution, Brown Center on Educational Policy. Retrieved from https://eric.ed.gov/?id=ED511164 The study is ineligible for review because it is out of scope of the protocol.
- Yeh, S. S. (2013). A re-analysis of the effects of KIPP and the Harlem Promise Academies. *Teachers College Record*, 115(4), Article No. 040301. The study is ineligible for review because it does not use an eligible design.

Endnotes

- ¹ The descriptive information for this intervention comes from the Harlem Children's Zone (HCZ) website at http://hcz.org, downloaded June 2017. The What Works Clearinghouse (WWC) requests developers to review the intervention description sections for accuracy from their perspective. The WWC provided the developer with the intervention description in June 2017; however, the WWC did not receive a response. Further verification of the accuracy of the descriptive information for this intervention is beyond the scope of this review.
- ² The two public K–12 charter schools operate in different sites, and each site has four schools: lower elementary, upper elementary, middle school, and high school.
- ³ The literature search reflects documents publicly available by February 2017. Reviews of the studies in this report used the standards from the WWC Procedures and Standards Handbook (version 3.0) and the Charter Schools review protocol (version 3.0). The evidence presented in this report is based on available research. Findings and conclusions may change as new research becomes available. The WWC released a quick review of Dobbie and Fryer (2009) in March 2010. The current study rating differs from the prior quick review rating. The quick review used the standards from the WWC Procedures and Standards Handbook (version 1.0) and the Quick Review protocol (version 1.0), which considered Dobbie and Fryer (2009) eligible for review of a study of the effectiveness of an individual charter school. The study was rated as meets standards without reservations in the 2010 review. The study was reviewed again under the Charter Schools review protocol for this product, and was determined to be ineligible for review. Under the Charter Schools review protocol, a study of the effectiveness of an individual charter school is not eligible to be included in a review for evidence of the effectiveness of a named Charter Management Organization (CMO) or charter network. Dobbie and Fryer (2009) was conducted in one of *HCZ's Promise Academy Charter Schools*, so any effect of the *HCZ Promise Academy Charter Schools* model cannot be distinguished from the effect of the particular staff, local services, or other factors at the school that are not part of the HCZ organizational model.
- ⁴ Studies had to be released or made public in 1996 or later and be obtained by the WWC for review before the drafting of the *HCZ Promise Academy Charter Schools* intervention report. There were no studies released or made public before the first HCZ charter school opened in 2004.
- ⁵ Please see the Charter Schools review protocol (version 3.0) for details on the types of interventions that are eligible for review. A study of the effectiveness of an individual charter school is eligible to be included in a review of the evidence of the effectiveness of an individual charter school, but is not eligible to be included in a review of the evidence of the effectiveness of a named CMO or charter network, like HCZ. The Dobbie and Fryer (2015) as well as the Whitehurst and Croft (2010) studies were conducted in one of *HCZ*'s *Promise Academy Charter Schools*, so they are not eligible to be included in this review.

Recommended Citation

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Glossary of Terms

Attrition Attrition occurs when an outcome variable is not available for all subjects initially assigned to the intervention and comparison groups. If a randomized controlled trial (RCT) or regression discontinuity design (RDD) study has high levels of attrition, the validity of the study results can be called into question. An RCT with high attrition cannot receive the highest rating of Meets WWC Group Design Standards without Reservations, but can receive a rating of Meets WWC Group Design Standards with Reservations if it establishes baseline equivalence of the analytic sample. Similarly, the highest rating an RDD with high attrition can receive is *Meets* WWC RDD Standards with Reservations.

> For single-case design research, attrition occurs when an individual fails to complete all required phases or data points in an experiment, or when the case is a group and individuals leave the group. If a single-case design does not meet minimum requirements for phases and data points within phases, the study cannot receive the highest rating of Meets WWC Pilot Single-Case Design Standards without Reservations.

Baseline A point in time before the intervention was implemented in group design research and in regression discontinuity design studies. When a study is required to satisfy the baseline equivalence requirement, it must be done with characteristics of the analytic sample at baseline. In a single-case design experiment, the baseline condition is a period during which participants are not receiving the intervention.

Clustering adjustment An adjustment to the statistical significance of a finding when the units of assignment and analysis differ. When random assignment is carried out at the cluster level, outcomes for individual units within the same clusters may be correlated. When the analysis is conducted at the individual level rather than the cluster level, there is a mismatch between the unit of assignment and the unit of analysis, and this correlation must be accounted for when assessing the statistical significance of an impact estimate. If the correlation is not accounted for in a mismatched analysis, the study may be too likely to report statistically significant findings. To fairly assess an intervention's effects, in cases where study authors have not corrected for the clustering, the WWC applies an adjustment for clustering when reporting statistical significance.

Confounding factor A confounding factor is a component of a study that is completely aligned with one of the study conditions, making it impossible to separate how much of the observed effect was due to the intervention and how much was due to the factor.

Design The method by which intervention and comparison groups are assigned (group design and regression discontinuity design) or the method by which an outcome measure is assessed repeatedly within and across different phases that are defined by the presence or absence of an intervention (single-case design). Designs eligible for WWC review are randomized controlled trials, quasi-experimental designs, regression discontinuity designs, and single-case designs.

Effect size The effect size is a measure of the magnitude of an effect. The WWC uses a standardized measure to facilitate comparisons across studies and outcomes.

Eligibility A study is eligible for review and inclusion in this report if it falls within the scope of the review protocol and uses either an experimental or matched comparison group design.

Equivalence A demonstration that the analytic sample groups are similar on observed characteristics defined in the review area protocol.

Extent of evidence An indication of how much evidence from group design studies supports the findings in an intervention report. The extent of evidence categorization for intervention reports focuses on the number and sizes of studies of the intervention in order to give an indication of how broadly findings may be applied to different settings. There are two extent of evidence categories: small and medium to large.

- small: includes only one study, or one school, or findings based on a total sample size of less than 350 students and 14 classrooms (assuming 25 students in a class)
- medium to large: includes more than one study, more than one school, and findings based on a total sample of at least 350 students or 14 classrooms

Gain scores The result of subtracting the pretest from the posttest for each individual in the sample. Some studies analyze gain scores instead of the unadjusted outcome measure as a method of accounting for the baseline measure when estimating the effect of an intervention. The WWC reviews and reports findings from analyses of gain scores, but gain scores do not satisfy the WWC's requirement for a statistical adjustment under the baseline equivalence requirement. This means that a study that must satisfy the baseline equivalence requirement and has baseline differences between 0.05 and 0.25 standard deviations Does Not Meet WWC Group Design Standards if the study's only adjustment for the baseline measure was in the construction of the gain score.

Group design A study design in which outcomes for a group receiving an intervention are compared to those for a group not receiving the intervention. Comparison group designs eligible for WWC review are randomized controlled trials and quasi-experimental designs.

Improvement index Along a percentile distribution of individuals, the improvement index represents the gain or loss of the average individual due to the intervention. As the average individual starts at the 50th percentile, the measure ranges from -50 to +50.

Intervention An educational program, product, practice, or policy aimed at improving student outcomes.

Intervention report A summary of the findings of the highest-quality research on a given program, product, practice, or policy in education. The WWC searches for all research studies on an intervention, reviews each against design standards, and summarizes the findings of those that meet WWC design standards.

adjustment

Multiple comparison An adjustment to the statistical significance of results to account for multiple comparisons in a group design study. The WWC uses the Benjamini-Hochberg (BH) correction to adjust the statistical significance of results within an outcome domain when study authors perform multiple hypothesis tests without adjusting the p-value. The BH correction is used in three types of situations: studies that tested multiple outcome measures in the same outcome domain with a single comparison group; studies that tested a given outcome measure with multiple comparison groups; and studies that tested multiple outcome measures in the same outcome domain with multiple comparison groups. Because repeated tests of highly correlated constructs will lead to a greater likelihood of mistakenly concluding that the impact was different from zero, in all three situations, the WWC uses the BH correction to reduce the possibility of making this error. The WWC makes separate adjustments for primary and secondary findings.

Outcome domain A group of closely-related outcomes. A domain is the organizing construct for a set of related outcomes through which studies claim effectiveness.

Quasi-experimental A quasi-experimental design (QED) is a research design in which study participants are design (QED) assigned to intervention and comparison groups through a process that is not random.

Randomized controlled A randomized controlled trial (RCT) is an experiment in which eligible study participants are trial (RCT) randomly assigned to intervention and comparison groups.

Rating of Effectiveness For group design research, the WWC rates the effectiveness of an intervention in each domain based on the quality of the research design and the magnitude, statistical significance, and consistency in findings. For single-case design research, the WWC rates the effectiveness of an intervention in each domain based on the quality of the research design and the consistency of demonstrated effects.

Regression discontinuity design (RDD)

A design in which groups are created using a continuous scoring rule. For example, students may be assigned to a summer school program if they score below a preset point on a standardized test, or schools may be awarded a grant based on their score on an application. A regression line or curve is estimated for the intervention group and similarly for the comparison group, and an effect occurs if there is a discontinuity in the two regression lines at the cutoff.

Single-case design A research approach in which an outcome variable is measured repeatedly within and across different conditions that are defined by the presence or absence of an intervention.

Standard deviation The standard deviation of a measure shows how much variation exists across observations in the sample. A low standard deviation indicates that the observations in the sample tend to be very close to the mean; a high standard deviation indicates that the observations in the sample tend to be spread out over a large range of values.

Statistical significance

Statistical significance is the probability that the difference between groups is a result of chance rather than a real difference between the groups. The WWC labels a finding statistically significant if the likelihood that the difference is due to chance is less than 5% (p < .05).

Study rating The result of the WWC assessment of a study. The rating is based on the strength of the evidence of the effectiveness of the educational intervention. Studies are given a rating of Meets WWC Design Standards without Reservations, Meets WWC Design Standards with Reservations, or Does Not Meet WWC Design Standards, based on the assessment of the study against the appropriate design standards. The WWC has design standards for group design, single-case design, and regression discontinuity design studies.

Substantively important A substantively important finding is one that has an effect size of 0.25 or greater, regardless of statistical significance.

Systematic review A review of existing literature on a topic that is identified and reviewed using explicit methods. A WWC systematic review has five steps: 1) developing a review protocol; 2) searching the literature; 3) reviewing studies, including screening studies for eligibility, reviewing the methodological quality of each study, and reporting on high quality studies and their findings; 4) combining findings within and across studies; and, 5) summarizing the review.

Please see the WWC Procedures and Standards Handbook (version 3.0) for additional details.









An **intervention report** summarizes the findings of high-quality research on a given program, practice, or policy in education. The WWC searches for all research studies on an intervention, reviews each against evidence standards, and summarizes the findings of those that meet standards.

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